

Accelerator Performance (11/11-11/17)



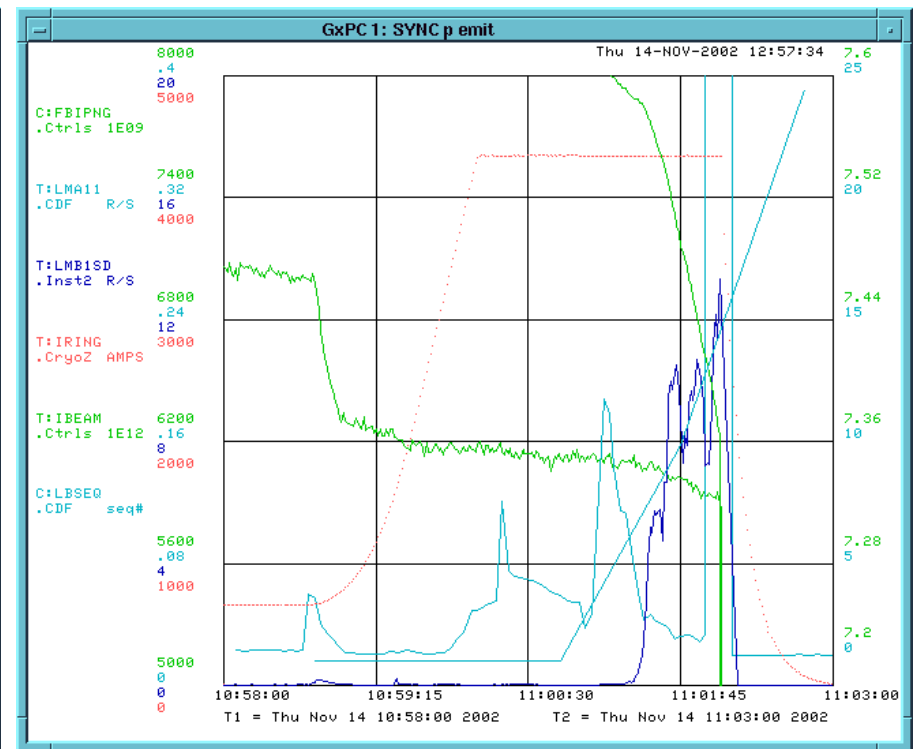
- Stack 'n Store week
- Loss of store 1963
- AP1 vacuum problems
- Third best integrated luminosity week 5.76 pb^{-1}

Store Summary

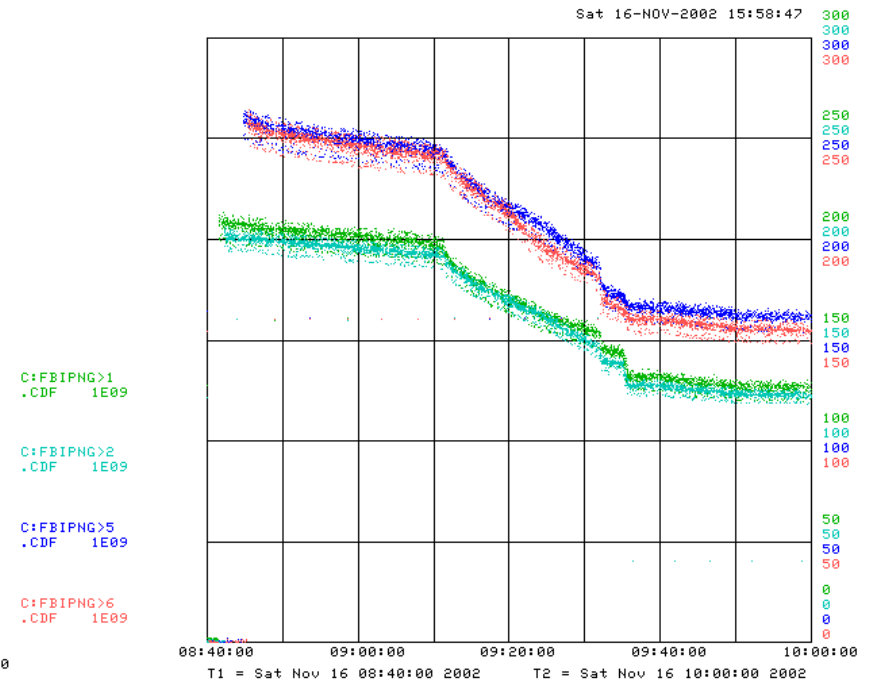
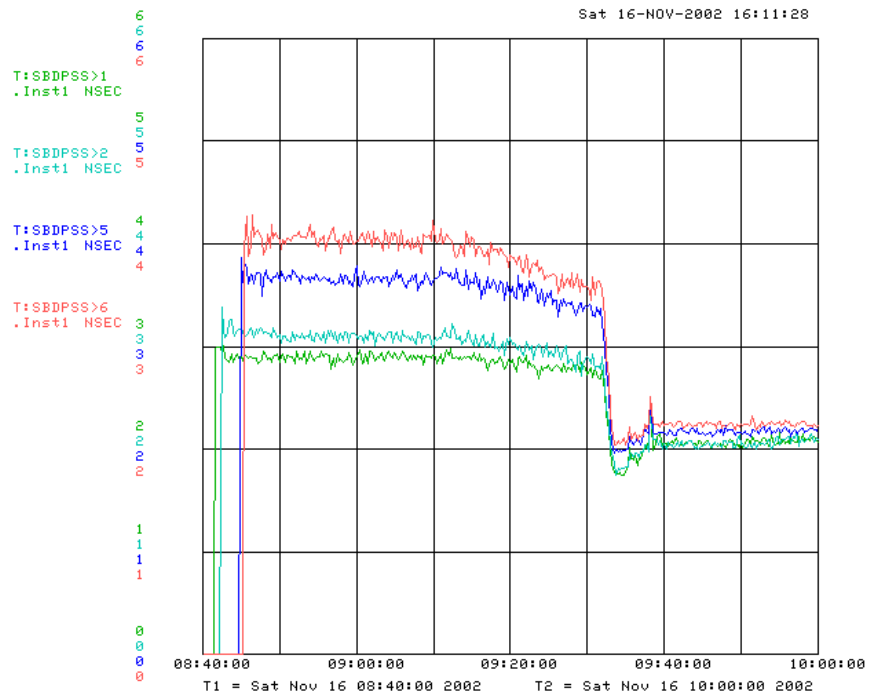


<u>Store</u>	<u>Initial Luminosity</u>	<u>Duration</u>	<u>Termination</u>	<u>Comments</u>
1957	3.25E31	9.3	intentional	168 mA, 947E9 pbars lowbeta
1961	3.34E31	15.5	intentional	160 mA , minor chrom adj
1963	0.0	0.0	Quench during squeeze	171 mA, largest #pbar at flattop by 15 percent over record store
1968	2.18E31	0.0	Intentional	107 mA ,A11 coll moved,chrom adj @153 gev,
1971	2.95E31	22.0	intentional	146 mA, 5,7 bunch coalescing,TRF trip,long damper off at p inj

A diagram illustrating the function f . It shows a horizontal vector on the left, represented by a line with a color gradient from dark blue to yellow. This vector is transformed by a function f , indicated by a large orange 'f' in the center. The result is another horizontal vector on the right, also with a color gradient, but its orientation and magnitude are different from the input vector, representing the output of the function.



Store 1971 bunch length



Tevatron Abort kickers



- For store 1968 the A11 collimators were moved 3σ closer to the beam
- Nikolai Mokhov to model existing collimator configuration and evaluate the effectiveness of an additional collimator at A48 (benefit of protecting against both proton and pbar pre-fires)
- The pre-fire strategy has been evaluated and no changes are expected.
- The conditioning strategy has been evaluated and no changes are being made in the short term, but in the long term new higher voltage charging supplies will allow conditioning at higher voltages
- Operations Bulletin to be released on what to do and data to archive when a pre-fire is suspected.

Tevatron Studies

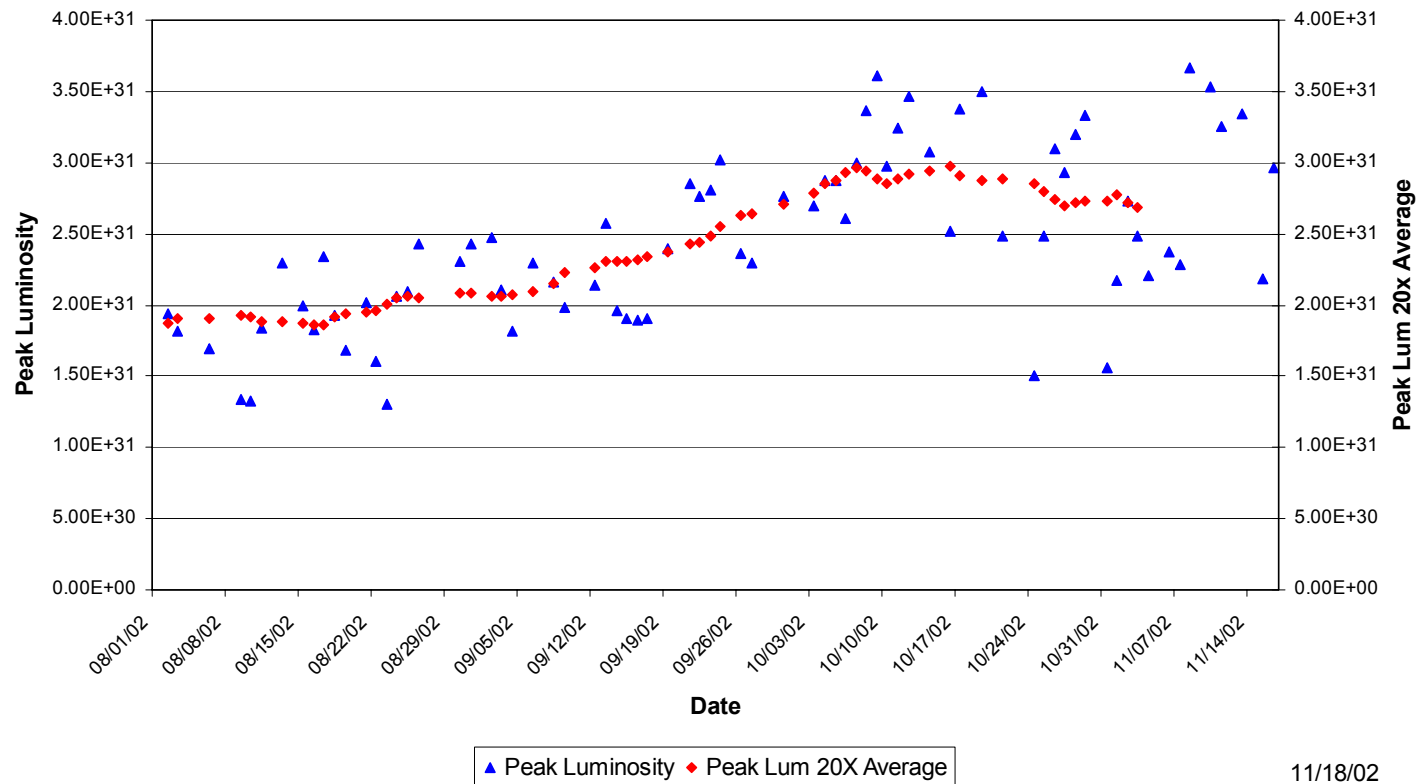


- ✓ Measurement of pbar tunes using the TEL as a noise source
- ✓ Removal of pbars for instrumentation calibration
- ✓ Utilize Octupoles at injection to suppress Tevatron instabilities
- Tune-up squeeze
 - Tune-up 150 GeV feeddowns
 - Measure tunes at early part of ramp
 - Measure B2 unwind compensation
 - Beam loss on ramp (
 - A1 BPM measurements

Peak Luminosity



Collider Run IIA Peak Luminosity

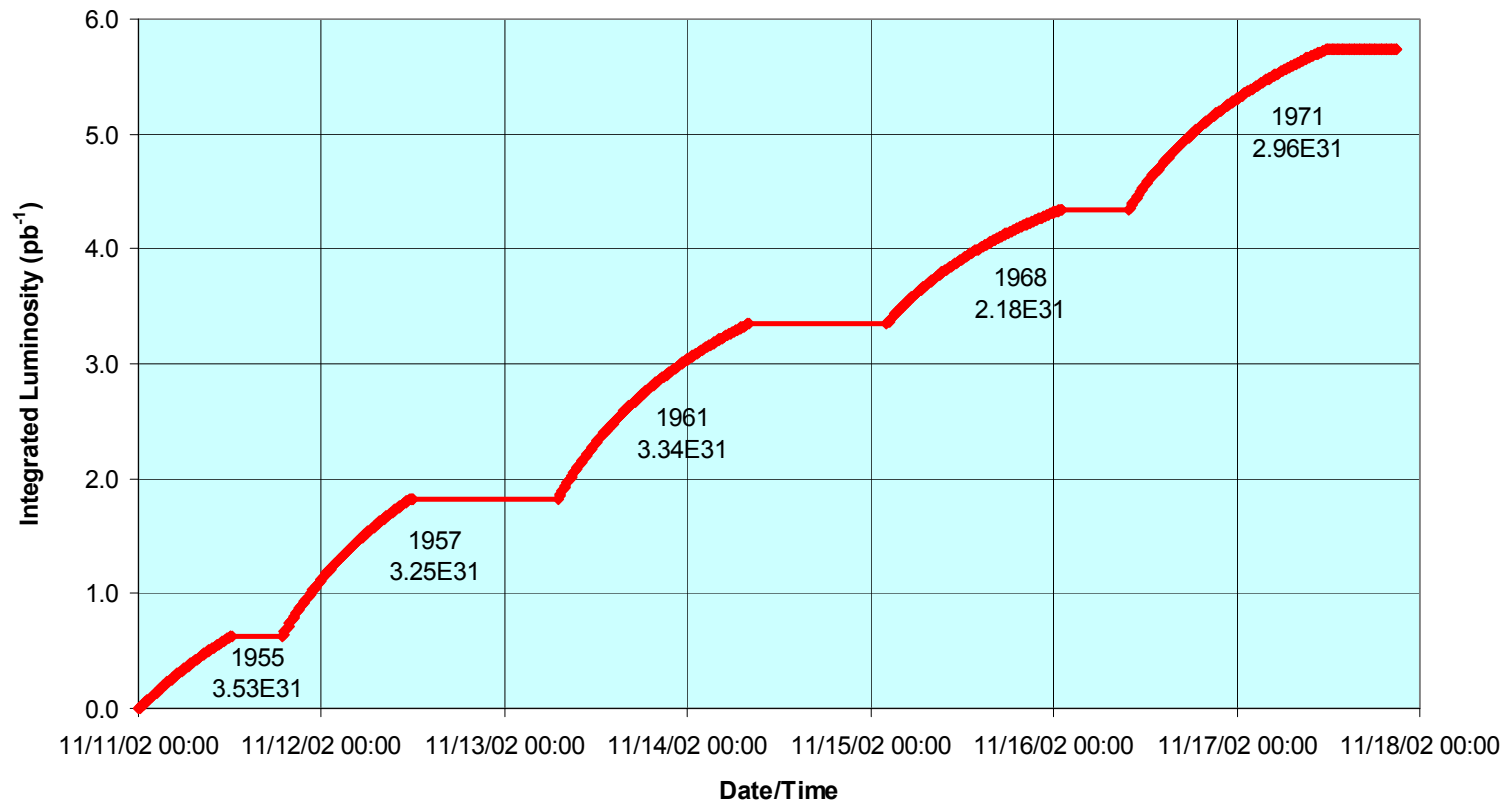


11/18/02

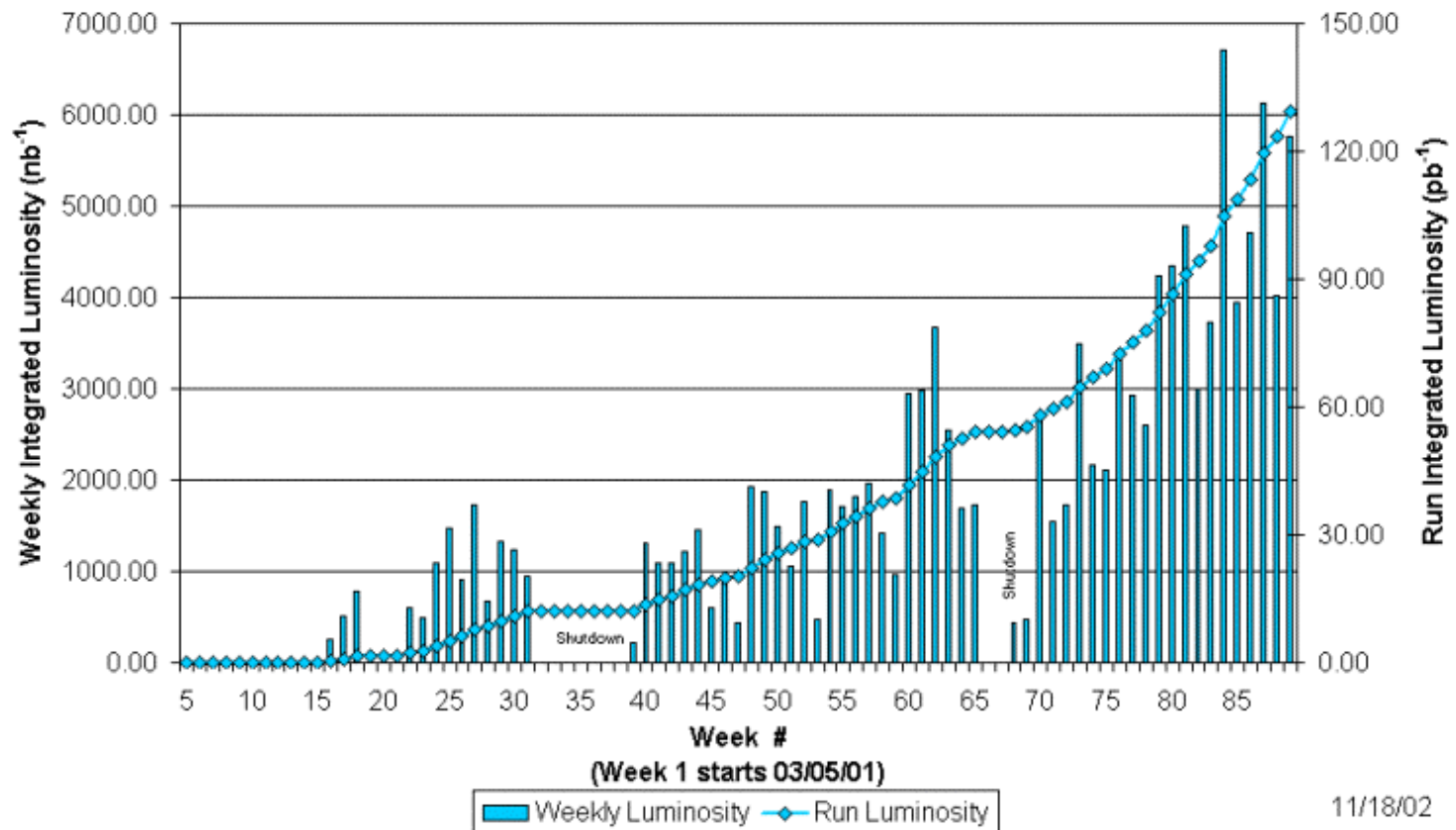
Integrated Luminosity for the Week



Integrated Luminosity for Week of 11/11/02



Integrated Luminosity



11/18/02

Schedule for this Week

f

Update 11/18/02 11:49 AM	MONDAY 11/11/02	TUESDAY 11/12/02	WEDNESDAY 11/13/02	THURSDAY 11/14/02	FRIDAY 11/15/02	SATURDAY 11/16/02	SUNDAY 11/17/02
Owls 0000 to 0800	<u>Tev studies</u> Pbar removal & octopole studies	<u>Tev ramp studies</u> Ramp (snap back) 0430 Rad safety tests 0530 CDF/D0 access, Mi rad survey.	Start up for operation.	←	→	Stack and Store	→
DAYS 0800 to 1600	<u>Tevatron Studies</u> -squeeze and ramp (snapback)	NTF - PT 0800 access -Mi supervised access. -Booster,TEV, Mini boone,SY Controlled access	NTF - PT	←	→	Stack and Store	→
EVES 1600 to 2400	<u>Tev Studies</u> Ramp studies(snapback)	1600 90% of the work done. Begin S&S Finish MPO 2 testing, and begin start up	←	→	→	Stack and Store	→

Schedule can be found at <http://www-bd.fnal.gov/operations/schedules.html>

Longer-term schedule



- Week 11/25 (Thanksgiving week)
 - Stack 'n store
- Week 12/1
 - Accelerator studies